

**AMENDMENT TO THE TITLE:**

Please change the title to read as follows:

IMAGE PROCESSING APPARATUS

**AMENDMENTS TO THE SPECIFICATION:**

Please delete Equation (2-3) on page 24 of the as-filed specification and replace it with Equation (2-3) as shown below:

$$\left[ \left[ R_e(\phi, \theta) = \begin{pmatrix} \cos \theta & 0 & \sin \theta \\ -\sin \phi \sin \theta & \cos \phi & \sin \phi \cos \theta \\ -\cos \phi \sin \theta & -\sin \phi & \cos \phi \cos \theta \end{pmatrix} \dots (2-3) \right] \right]$$

$$R_e(\phi, \theta) = \begin{pmatrix} \cos \theta & 0 & \sin \theta \\ -\sin \phi \sin \theta & \cos \phi & \sin \phi \cos \theta \\ -\cos \phi \sin \theta & -\sin \phi & \cos \phi \cos \theta \end{pmatrix} \dots (2-3)$$


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Please delete Equation (9-1) on page 32 of the as-filed specification and replace it with Equation (9-1) as shown below:

$$\left[ \left[ \bar{q} = \begin{pmatrix} \phi \\ 0 \end{pmatrix} \dots (9-1) \right] \right] \quad \underline{\bar{q} = \begin{pmatrix} \phi \\ \theta \end{pmatrix} \dots (9-1)}$$